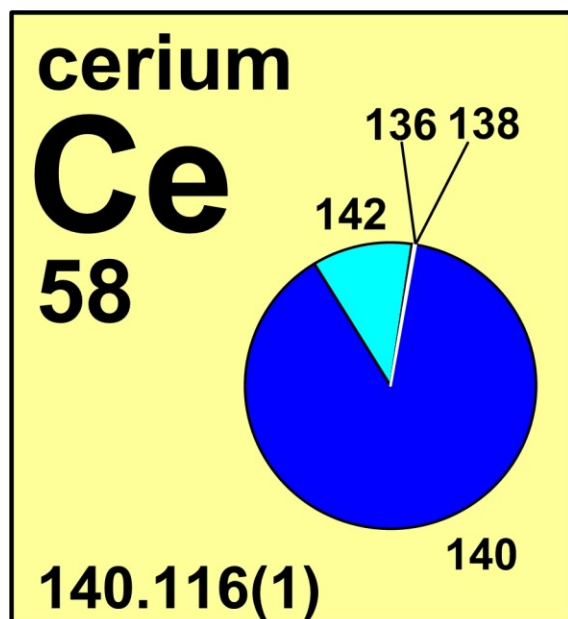
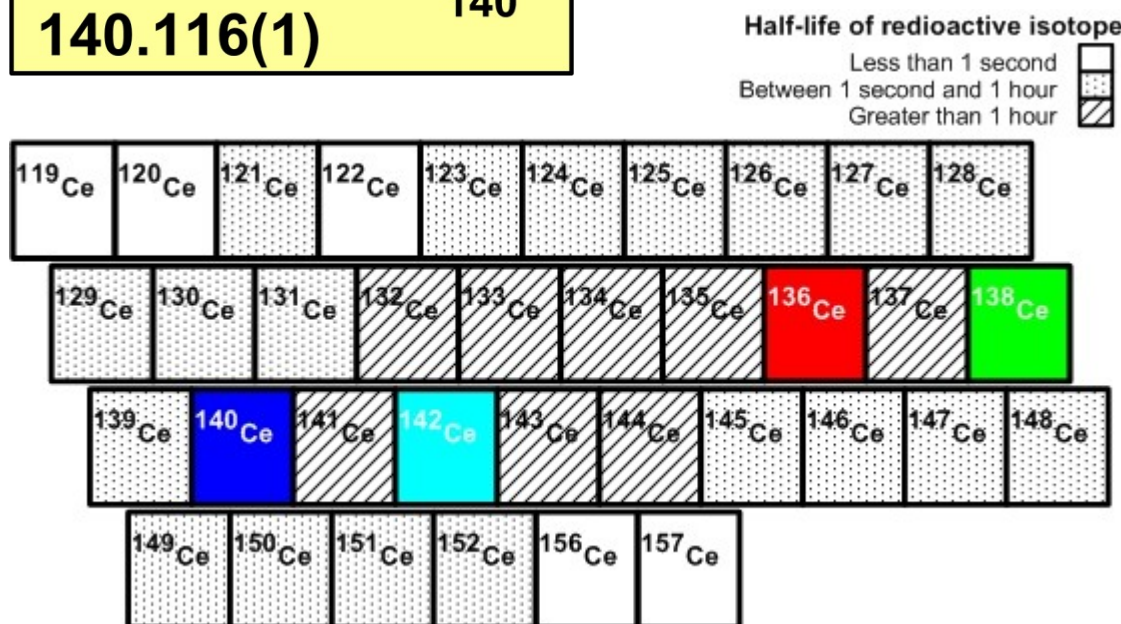


## cerium



Stable isotope	Atomic mass*	Mole fraction
$^{136}\text{Ce}$	135.907 172	0.001 85
$^{138}\text{Ce}$	137.905 991	0.002 51
$^{140}\text{Ce}$	139.905 4387	0.884 50
$^{142}\text{Ce}$	141.909 244	0.111 14

\* Atomic mass given in unified atomic mass units, u.



## Important applications of stable and/or radioactive isotopes

### Isotopes in geochemistry

- 1)  $^{138}\text{Ce}/^{142}\text{Ce}$  is used for dating rocks and as a chemical tracer in geochemistry.

\*\*Applications of cerium isotopes are still being researched and this page will be updated shortly. \*\*